



All-In-One (HV) (5-20) kW

Smarter Power Better Life



ALL-IN-ONE 5-20kW

Compared With Separate Installation



All-in-one after-sales service

- 10-year warranty. Replace new machines instead of repairing.*
- No need to worry about after-sales between inverters and batteries of different brands.

* For critical parts quality issues.

Saves **20%** space

- Integrated humanized design, removed redundant cables.
- Adds points to beauty and attractiveness.



20% reduction in installation time

- Stack installation with Plug & Play connection.
- Makes the installation process time-saving, cost-effective and worry-free.



Integrated AC Charger, Plug & Play

- Charging electric vehicles with clean energy, effectively save charging costs.



All-in-one System Three Phase (HV) (10-20) kW

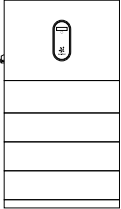
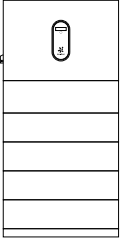

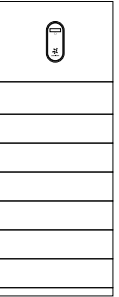


| Type Designation | All-in-one sys-10kW-TH PRO | | All-in-one sys-15kW-TH | All-in-one sys-20kW-TH |
|--|---|--|-------------------------|-------------------------|
| PV (input) | | | | |
| Max. recommended PV array power [Wp] | 20000 | | 30000 | 40000 |
| Max. PV input voltage* [V] | | | 1000 | |
| Rated PV input voltage [V] | | | 650 | |
| Start-up input voltage [V] | | | 150 | |
| MPPT voltage range [V] | | | 150-950 | |
| No. of MPPT/Strings per MPPT | 3 (2/1/1) | | | 3 (2/2/1) |
| Max. PV input current [A] | 64 (32/16/16) | | | 80 (32/32/16) |
| Max. DC short-circuit current [A] | 80 (40/20/20) | | | 100 (40/40/20) |
| Battery | | | | |
| Battery type | LiFePO4 Prismatic Cell | | | |
| Max. charge/discharge current [A] | 30/30 | | | |
| Battery voltage range [V] | 100-800 | | | |
| Nominal capacity range | 9.6 kWh-25.6 kWh (3.2 kWh / 50 Ah per module) | | | |
| Number of connectable modules | Max. 8 modules for each stack, Max. 4 stacks in parallel (102.4kWh) | | | |
| Backup (output) | | | | |
| Rated output power (off-grid mode) [VA] | 10000 | | 15000 | 20000 |
| Peak output power** (off-grid mode) | 16800 W / 16800 VA, 10s | | 25500 W / 25500 VA, 10s | 32000 W / 32000 VA, 10s |
| Max. output power (on-grid mode) | 43000 W / 43000 VA | | | |
| Max. output current (on-grid mode) [A] | 3*63 | | | |
| Backup switching time [ms] | ≤4 | | | |
| Rated voltage [V] | 3/N/PE, 220/380; 230/400; 240/415 | | | |
| Frequency range [Hz] | 50/60 | | | |
| Total harmonic distortion (THDv, rated power, linear load) [%] | ≤2 | | | |
| Grid (input/output) | | | | |
| Max. AC power from grid | 43000 W / 43000 VA | | | |
| Rated AC output power [VA] | 10000 | | 15000 | 20000 |
| Max. AC output power [VA] | 10000 | | 15000 | 20000 |
| Max. AC output current [A] | 15.2 | | 22.8 | 30.3 |
| Rated AC voltage [V] | 3/N/PE, 220/380; 230/400; 240/415 | | | |
| AC voltage range [V] | 270-480 | | | |
| Rated grid frequency [Hz] | 50/60 | | | |
| Grid frequency range [Hz] | 45-55/55-65 | | | |
| Total harmonic distortion (THDi, rated power) [%] | <3 | | | |
| Power factor at rated power/ Adjustable power factor | > 0.99/0.8.leading to 0.8 lagging | | | |
| Efficiency | | | | |
| Max. efficiency/European efficiency [%] | 98.00/97.50 | | 98.10/97.60 | |
| Protection & Function | | | | |
| Parallel* | Master-slave mode | | | |
| Surge protection | Type II, DC and AC | | | |
| Overvoltage category | II DC and III AC | | | |
| Protective class | Class I | | | |
| Grid monitoring | Yes | | | |
| DC reverse polarity protection | Yes | | | |
| Battery input reverse polarity protection | Yes | | | |
| Insulation monitoring | Yes | | | |
| AC short-circuit protection | Yes | | | |
| Residual current protection | Yes | | | |
| DC switch (PV) | Yes | | | |
| Over-heat protection | Yes | | | |
| AFCI | OPT | | | |
| General Data | | | | |
| Topology (PV/Battery) | Transformerless | | | |
| Degree of protection | IP65 | | | |
| Mounting method | Floor-standing | | | |
| Operating ambient temperature range [°C] | -25-60 (Derating above 45) | | | |
| Storage temperature [°C] | -20-45 (≤1 Month)/-20-25 (≤6 Months) | | | |
| Allowable relative humidity range [%] | 5-95 | | | |
| Cooling method | Natural convection | | | |
| Noise (Typical) | 35 dB (A) | | | |
| Max. operating altitude [m] | 2000 | | | |
| Display | LED | | | |
| Communication | 2*RS485/1*CAN/WLAN | | | |
| DI/DO | 4*DI/2*DO/DRM0 | | | |
| DC connection type | MC4 (PV, Max. 6 mm²) | | | |
| AC connection type | Plug and play terminals (Grid / Backup, Max. 10 mm²) | | | |

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Can be reached only if PV and battery power is sufficient

*** Detail refer to inverters parallel configuration in User Manual

All-in-one System Batteries (HV) (9.6-25.6) kWh

| Type Designation | 3 modules | 4 modules | 5 modules | 6 modules | 7 modules | 8 modules** |
|--------------------------------|---|---|---|---|---|---|
| Technical data | | | | | | |
| Usable energy* [kWh] | 9.60 | 12.80 | 16.00 | 19.20 | 22.40 | 25.60 |
| Depth of discharge | Max.100% DOD (settable) | | | | | |
| Module parameter | 64V 50Ah 640*172*360mm 33.3±0.5kg | | | | | |
| Cell type | LiFePO4 Prismatic Cell | | | | | |
| System configuration | 3 | 4 | 5 | 6 | 7 | 8** |
| |  |  |  |  |  |  |
| Cell configuration | 1P60S | 1P80S | 1P100S | 1P120S | 1P140S | 1P160S |
| Nominal voltage [V] | 192 | 256 | 320 | 384 | 448 | 512 |
| Operating voltage range [V] | 171-216 | 228-288 | 285-360 | 342-432 | 399-504 | 456-576 |
| Max. continuous current*** [A] | 30 | | | | | |
| Max. continuous power*** [kW] | 5.76 | 7.68 | 9.60 | 11.52 | 13.44 | 15.36 |
| Short circuit current [A] | 40 | | | | | |
| Communication | CAN / RS485 | | | | | |
| Weight**** [kg] | 152 | 185 | 218 | 251 | 284 | 317 |
| Dimensions (W*H*D)****[mm] | 640*1012*360 | 640*1172*360 | 640*1332*360 | 640*1492*360 | 640*1652*360 | 640*1812*360 |
| Operating temperature [°C] | Charge: 0-50 / Discharge: -20-50 | | | | | |
| Storage temperature [°C] | -20-45 (≤1Month) / -20-25 (≤6 Months) | | | | | |
| Humidity [%] | 5-95 | | | | | |
| Altitude [m] | ≤2000 | | | | | |
| Degree of protection | IP65 (Indoor / Outdoor) | | | | | |
| Cooling | Natural convection | | | | | |
| Installation location | Floor-standing | | | | | |
| Display | SOC indicator, Status indicator | | | | | |
| Warranty | 10 Years | | | | | |

* Test conditions: 3.0V-3.5V, 0.2C Charge (CC-CV) and discharge at 25±3°C, 100% depth of discharge (DOD);

** Single Phase All-in-one system are not applicable to this configuration.

*** Max. Continuous Current/Power derating will occur related to temperature / SOC / Humidity;

**** Measured based on the Three Phase All-in-one system. Only slight differences in height&weight between different models.

Full Range From Power Generation,
Transmission, Distribution To

Energy Storage

32 years

With 32 years of experience,
specialized in equipment manufacturing
and engineering services

Public Co.

Founded in 1993
Stock listed in 2004 (SZSE002028)

US\$3.2 Billion

2024 Turnover

1400+

1411 Qualified engineers are
the driving force behind the
exceptional R&D progress

TOP 3

Sieyuan思源电气
Electrical Equip. Manufacturer

22

22 Manufacturing bases

100+

With 10,000+ employees
in 100+ countries and regions

1,000kV

Full range product: 10kV -1,000kV

esGrid

Grid-level energy storage

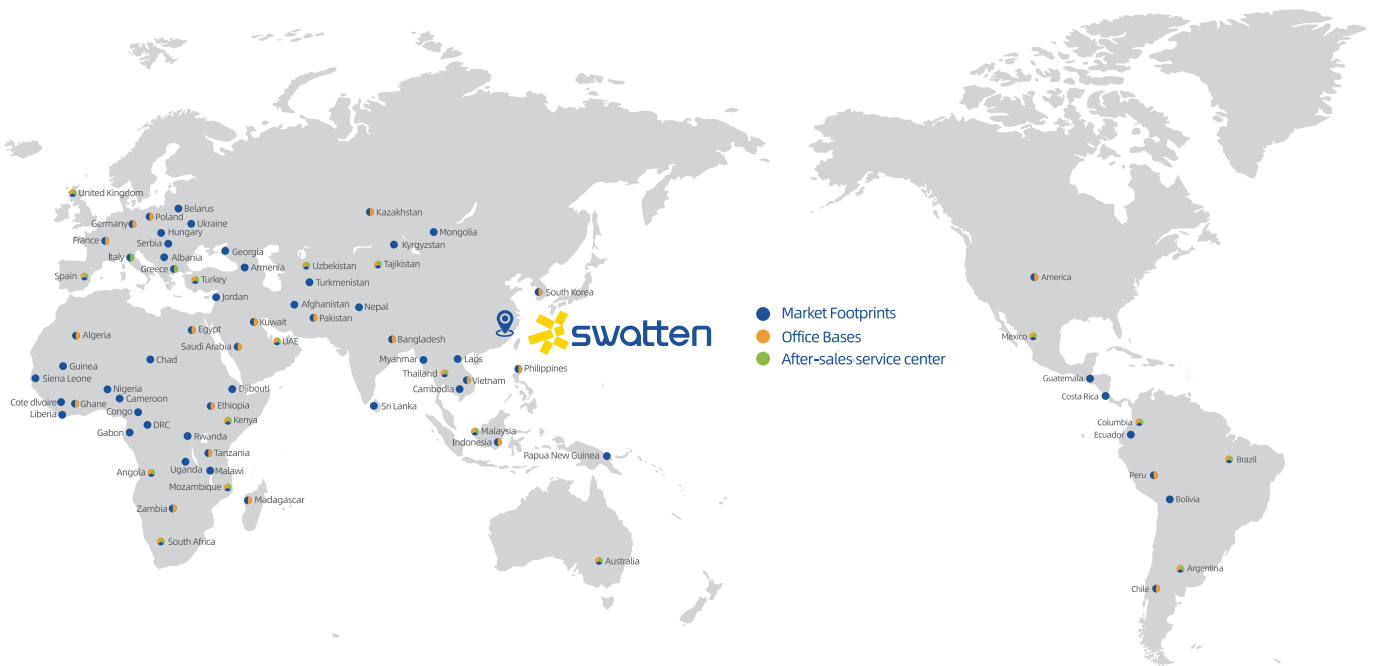
Sieyuan Utility Scale BESS

 **swatten**
Powered by Sieyuan

C&I and Residential BESS



Global Marketing & Service Layout



Our Global Clients





Swatten Europe Case



Swatten APAC Case



Compatible Battery Brand

* For detailed list please contact our technical team



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